



FROM THE
DIRECTOR

Michael
Anastasio

Employees invited to attend
special Family Open House

I cordially invite employees, non-LLNL employees who work at the Laboratory, LLNL retirees and DOE and Sandia National Laboratory employees to bring their families and guests to visit the Laboratory site on Saturday and Sunday, Sept. 21-22, from 9:30 a.m. to 4:30 p.m., and to Site 300 on Saturday, Sept. 21, from 10 a.m. to 2 p.m. This is a rare opportunity for you to show your family the Laboratory and your workplace as part of celebrating 50 years of “Making History — Making a Difference.”

A special Family Open House issue of Newsline will be available as you enter the Livermore site and Site 300. It will provide your group with information on the Family Open House, including interesting projects, equipment and facilities to see, special activities, shuttle bus routes and places to eat.

Important information about the Family Open House is provided below. A map located on page 7 shows where to park and where the two entrances to the Family Open House are located. For more information, see the Family Open House Website (http://www-r.llnl.gov/50th_anniversary/openhouse.htm).

As a reminder, the Laboratory will host Special Guest Days on Wednesday, Thursday, and Friday, Sept. 18-20. The general rule is that no classified work may be done in visitor tour areas on Sept. 18, 19 and 20 during the time of the tours. On Friday, Sept. 20, all classified activities must stop at 7 a.m. and may not resume until after Family Open House ends Sunday, Sept. 22, except as approved by the Program Security Representative.

I sincerely hope that you, your family and your guests will attend and enjoy the Family Open House.

Lab kicks off weeklong celebration

A talk by former astronaut John Glenn, a daylong look at scientific programs, a panel discussion featuring members of the original corps of employees and a special employee celebration are a few of the events taking place during a weeklong celebration of Lawrence Livermore National Laboratory’s 50th anniversary.

Throughout the week parking will be limited in some areas of the Lab, particularly the A and Z lots near Bldgs. 111 and 132, to accommodate the pavilion area and visiting guests.

For employees, “1952 day” begins at noon Monday, Sept. 16, in the Bldg. 123 auditorium. A number of the Lab’s original employees will reflect on the Laboratory during its fledgling years, offering



insights and anecdotes during a special panel discussion (see accompanying story, this page).

At 3:30 p.m. that same day, Ray Geselbracht of the Truman Library will give a lecture to employees titled, “Harry S. Truman and the Paradox of Atomic Energy,” at 3:30 p.m. in the Bldg. 123 auditorium. Truman was president at the time LLNL was founded, and his decisions were vital to the new laboratory.

Tuesday, Sept. 17, brings the return of Science Day, a daylong “then and now” look at “Our Heritage, Our Future.” (For more details, see the accompanying story on this page.)

See **CELEBRATION**, page 5

‘1952 Day’ blasts to the Lab’s past

One of the Lab’s first employees, Cecilia Larsen, was hired in 1951, before the Laboratory officially opened, as a “gal Friday in a one-girl office.” Her first assignment was checking badges at the Livermore gate.

She soon convinced her boss that she was capable of doing



The Laboratory in its early years.

more, and he agreed to send her to the Berkeley Radiation Lab for a year-long internship to learn more about policies and procedures. One of her assignments was in the director’s office.

“That was very exciting because there were a lot of dignitaries coming to see Dr. Lawrence all the time, and I got

See **ALUMNI**, page 8

Daylong look at science’s heritage, future

By Anne M. Stark
NEWSLINE STAFF WRITER

Guests and Lab employees will see innovative science in four key areas of Lab research Tuesday as they take a trip to the past and a jaunt into the future during Science Day 2002.

Titled “Innovative Science and Technology — Our Heritage, Our Future,” Science Day consists of a series of presentations and more than 60 posters and exhibits that will span the various areas



of science and technology the Lab has developed during the last 50 years.

But it’s more than just a technical explanation of perhaps the mechanics of a star or the detection of biological agents.

“Science Day will be as much about how science is done as what is done,” said Associate Director at Large Bruce

See **SCIENCE DAY**, page 6



1988:
Joint verification

— Page 3



Week of Caring
kicks off

— Page 4



Tribute to
September 11

— Page 5



LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

**Monday
16**

The office of the CIO is hosting Rand Morimoto, president of Convergent Computing, for a presentation on **Windows 2000**, from 9-11 a.m. in the Bldg. 543 auditorium. Morimoto will discuss what Convergent has learned about the Laboratory environment from its consulting contract with LLNL regarding the Active Directory deployment. Contact: Barry Howard, howard4@llnl.gov, 2-4030.

**Wednesday
18**

Want to improve your communication skills? The Employee and Organization Development Division has openings in **"How to Handle Difficult People"** (ED7047-B). This course will teach how to effectively deal with difficult people and tough situations. This course is scheduled from 8:30 a.m.-4:30 p.m. at the Training Center (Trailer 1879). Cost is \$140-\$235 depending on the number of participants. You may sign up online at LTRAIN, https://www-ais.llnl.gov/llnl_only/docs/hr/ltrain, or contact 2-4842.

A representative from **Fidelity Investments** will be on site to meet with employees Wednesday and Thursday. Fidelity Investments are available to UC's 403(b) participants in addition to the UC-managed investment funds. To make an appointment, call Fidelity at 1-800-642-7131. When calling, be sure to specify you are an LLNL employee.

**Thursday
19**

Marina Gonzalez of Recruiting and Employment will discuss the **Laboratory Employee Application Process** at noon in Bldg. 571, room 1301. Her presentation will include how to log on to and navigate through LEAP and how applications are processed when they are received. Contact: Sharon Giovannoni, 2-5571.

**Friday
20**

The Administration & Resources Directorate will host an **"employee celebration"** with free cake and ice cream for all employees from 11:30 a.m. to 1:30 p.m. in all three Lab cafes, as well as the Site 300 cafe. The West Cafe will also feature a local DJ playing sounds of the 1950s and 60s, along with a costume competition, with awards for best male and female 1950s costumes.



The LLESA Rubber Stamping Networking Group will hold a **"holiday fun" stamp camp** on Saturday, Oct. 5, from 10:30 a.m. until your project is completed, in Bldg. 415, Yosemite room. This will be a hands-on training session on different stamping techniques. The \$15 fee covers materials and instruction. Deadline to sign up is Sept. 25. Contact: Terry Griffin: 2-6684 or griffin6@llnl.gov.

Lending a helping hand



PHOTO COURTESY OF CHELLE CLEMENTS

A number of Lab employees volunteered at the 2002 East Bay Stand Down held last week at Parks Reserve Forces Training Area. The four-day event provided medical attention, legal aid, Social Security information, and housing and job referrals for more than 332 homeless veterans and their families. The Lab participants included (front row) Chelle Clements; (middle row) retiree Bob Zazueta, Rex Jones, Joe Haslego, Amy Feikert, Leslie Curtis and Steve Wofford; (back row) Kathy Oliver, Bill Oliver and Gary Michalak. The LLNL Armed Forces Veterans Association collected enough donations to sponsor one of the tents that 20 homeless veterans lived in for four days. Others from LLNL who volunteered included Roy Warner, Barbara McDonald, Jennifer Peterson, Anita Foster and Chris Trapp (with his Boy Scouts).

Lab puts Spotlight on Science with lectures

The Lab's Public Affairs Office is launching its fourth year of community lectures with a talk showcasing the pictorial history of nuclear testing.

Peter Kuran, who has produced five documentaries on the subject of nuclear testing, will discuss "Nuclear Testing: A History Told in Images," at 7 p.m. on Monday, at Livermore High School. This talk is free and open to the public.

The lecture series, "Spotlight on Science," is designed to address current topics in science and present them in an understandable way to the community.

Kuran's talk will focus on the importance of film preservation and restoration and how it applies to the history of nuclear testing. He will also present a pictorial history of nuclear testing, including some highlights of Livermore's contribution as culled from his five documentaries on the subject, including "Trinity and Beyond."

"Our government, as well as those who have been entrusted with the responsibility of maintaining these historical images, must make it a priority to preserve these images for future generations," Kuran said.

The Laboratory's Spotlight on Science series will present six lectures during the 2002-2003 school year that range from evolution to earthquakes to terrorism. Speakers will discuss their research, present leading-edge information and follow their presentations with

a question-and-answer period.

The lectures will be offered once a month (except December) through March 2003. The lectures, which are geared toward the general public, begin at 7 p.m. and are free of charge. Four of the talks will be held at Livermore High School, 600 Maple St., and two will be held at Amador High School in Pleasanton, 1555 Santa Rita Road.

This Spotlight on Science speakers are:

- Terry Turchie, LLNL, "In Pursuit of Justice: The War on Terror," Oct. 24, Amador High School.
- David McCallen, LLNL, "Computer Modeling: Predicting Effects of Major Earthquakes," Nov. 14, Livermore High School.
- David Seaborg, evolutionary biologist, "The Current Status of Evolutionary Biology," Jan. 23, Livermore High School.
- Wayne Morris, Wackenhut Services, "Protecting What's Ours: The Loss of U.S. Technology to Competitors," Feb. 20, Amador High School.
- Tammy Jernigan, LLNL, "Blast Off to the International Space Station," March 27, Livermore High School.

For more information or maps, please go to <http://www.llnl.gov/llnl/06news/Community/lecture.html> or call (925) 422-4599.

Leadership class to begin

The Pleasanton Leadership Program has eight slots left for its "A Program to Develop Community Leaders" course.

The goal of the program is to identify and motivate a broad spectrum of individuals who are committed to the betterment of the Pleasanton community. Participants learn about all aspects of Pleasanton's city government, services and schools and have an opportunity to discuss issues with current community leaders.

Anyone can get involved; you don't have to live in Pleasanton. Just working at the Lab qualifies you and with supervisor approval, this can be paid from training budgets. Cost is \$800.

Contact John Ziagos, 2-0825, for a Lab perspective. To apply, call (925) 846-5858.

Newsline

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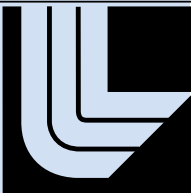
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1952 – 2002

MAKING HISTORY, MAKING A DIFFERENCE



Reducing the nuclear threat through joint verification

This is an ongoing feature highlighting the Lab’s 50-year history. This week we take a look at the year 1988.

In 1988, a landmark event in U.S.-Soviet relations occurred when Soviet and U.S. teams for the first time conducted measurements of nuclear detonations at each other’s nuclear testing sites. The event, called the Joint Verification Experiment (JVE), allowed Soviet and U.S. scientists to become more familiar with the verification technologies that were proposed to monitor compliance with the Threshold Test Ban Treaty and Peaceful Nuclear Explosions Treaty.

Russian scientists were on hand to witness the Kearsarge event that was detonated August 17, 1988, on Pahute Mesa at the Nevada Test Site. Nearly 150 people from the U.S. traveled to the Semipalatinsk test site to participate in the preparation of the Shagan test on September 14, 1988. Livermore personnel were heavily involved in fielding the two explosions.

JVE was a turning point in Soviet relations with the West. Many American–Russian friendships were forged, and the more open atmosphere anticipated the post-Cold War era. Since the collapse of the Soviet Union, Laboratory scientists have traveled thousands of miles between Livermore and Russia and the newly independent states to collaborate with scientists on cooperative projects to reduce nuclear threats.



Heralding a new era of cooperation, U.S. and Soviet flags fly side by side atop the experiment tower at the Nevada Test Site during the first of two Joint Verification Experiments.

<div>Around the Lab</div> <div>Lab work in the 1980’s</div> <div>Major Laboratory work included magnetic fusion; inertial fusion; isotope separation; computer modeling with a new generation of supercomputers, and biomedical sciences and biotechnology. Nova, the world’s largest laser, became operational. Groundwork was laid for the Laboratory’s major role in the Human Genome Project. John H. Nuckolls was the director from 1988 to 1994.</div>	<div>Around the nation</div> <div><ul style="list-style-type: none">George H. Bush elected president100-digit number factoredSupercollider site chosen in Texas, estimated cost for SSC: \$8 billion</div> <div>Around the world</div> <div><ul style="list-style-type: none">U.S.S.R. sends army to quell unrest in AzerbaijanIndia and Pakistan sign nuclear treatyGorbachev reduces Red Army by 10 percent</div>	<div><div>in other</div><div>NEWS</div><div>Other news around the Lab, the nation and the world.</div></div>
<div>For more of the Lab’s rich history, check out the Timeline, located at: http://www.llnl.gov/timeline/</div>		

Due to the special editions of *Newsline* today and Sept. 20, there will be no classified ads. The ads will return on Sept. 27. In the meantime, they can be accessed on the Web at <https://www-ais.llnl.gov/newsline/ads/>

The Technical Meeting Calendar will not be published in the Sept. 20 issue of *Newsline*. It will return on Sept. 27. In the meantime, it can be accessed on the Web at <http://www.llnl.gov/llnl/06news/Employee/techmeet.html>



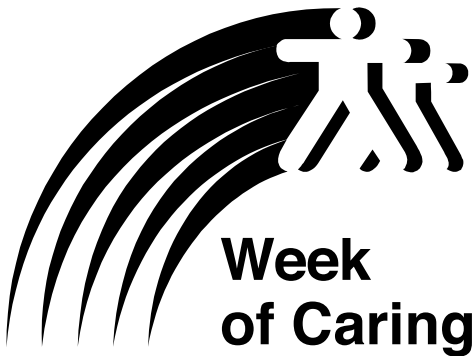
NEWS YOU CAN USE

Volunteers needed for ‘Week of Caring’

For the 10th consecutive year, Laboratory staffers are organizing a “Week of Caring” to recruit volunteers for local events benefiting senior citizens and families in crisis. For many Lab employees, the Week of Caring has become an unofficial start to the HOME Campaign, and a great way to gear up for those activities.

The Lab’s Week of Caring runs Sept. 23-27, in conjunction with the United Way of the Bay Area and the Volunteer Centers of the Bay Area. It is an opportunity to match employee volunteer teams with fun and fulfilling service projects at local nonprofit organizations. Each volunteer also receives a free Week of Caring T-shirt from United Way.

Laboratory-supported projects have been scheduled in October, November, and February ‘03. The kickoff event, “Helping the Haven,” is slated for Saturday, Oct. 19 at the Tri-Valley Haven for Women in Livermore. Twenty volunteers are requested to paint, garden, and help clean house from 8:30 a.m. to 12:30 p.m.



Week of Caring

Next on the schedule is the “Pleasanton Senior Prom” on Friday evening, Nov. 1 at the Pleasanton Senior Center. Some 12 to 15 volunteers will help decorate, plate desserts, make punch and coffee, serve coffee,

take tickets and clean up.

The big finale arrives Friday, Feb. 14, with the Pleasanton Senior Center’s evening Valentine’s Dance. About 15 to 20 volunteers will set tables, decorate, prepare dinner, serve it, take tickets and clean up.

Co-chairs for 2002, Kathy Turnbeaugh and Janet Conrad, both of the Computation Directorate, are ready to reserve the volunteer slot that works best for you. Contact them as follows: turnbeaugh1@llnl.gov or conrad3@llnl.gov .

Those interested in volunteering for a specific event are encouraged to reach either Turnbeaugh or Conrad promptly, as the lists will close once the maximum number of volunteers has been reached.

‘Brotherhood of the Bomb’ author, historian to speak

Gregg Herken, author of the newly released “Brotherhood of the Bomb,” will give a short talk about his book and sign copies during a visit to Goodenough Books, 1362 Railroad Ave., Livermore, on Friday, Sept. 20 at 7:30 p.m.

Herken’s book, which is receiving positive reviews, features the “tangled lives and loyalties of Robert Oppenheimer, Ernest Lawrence and Edward Teller.” Herken, who is a senior historian and curator at the Smithsonian’s National Air and Space Museum, spent 10 years writing and researching the book.

Herken also will be at the Laboratory for part of the Event Week activities, and copies of his book will be at the Time Zone Lab store. The Laboratory plans to host a talk by Herken later this fall.

Demolition of Bldg. 222 scheduled for this month

Demolition of the south wing of Bldg. 222 is scheduled to begin Sept. 23. It is expected to last through mid-November.

During that time, sidewalks near the demolition area on Avenue B and First Street will be closed off. Parking in that area will be unavailable and traffic control will be in effect.

For information on the demolition, contact Matt Robison at 2-9775. For traffic control concerns, contact Mark Short, 2-6998.

Technical Meeting Calendar

Friday 13
PHYSICS & ADVANCED TECHNOLOGIES
“Galaxy Evolution at the Keck Diffraction Limit,” by James Larkin, UCLA. Noon, Bldg. 319, room 205 (uncleared area). Contact: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

ELECTRONICS ENGINEERING
“A Simple Method for Linearizing Nonlinear Spectra for Calibration,” by John Wikander (interview candidate). 9:30 a.m., Bldg. 131, room 1645 (cleared area). Contact: Steve Azevedo, 2-8538.

Monday 16
COMPUTING RESOURCE CENTER
“Maximizing a Windows 2000 Networking Environment,” by Rand Morimoto, Convergent Computing. 9 a.m. Bldg. 543 auditorium (uncleared area). Contact: Barry Howard, 2-4030.

ELECTRONICS ENGINEERING
“Stochastic Multi-Resolution Spatial Models,” by Gardar Johannesson (interview candidate). 9:30 a.m., Bldg. 141, room 1104 (Bay 1, unclear area). Contact: Steve Azevedo, 2-8538.

INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“The Systems Biology Workbench (SBW) and the Systems Biology Markup Language (SBML),” by Andrew Finney, California Institute of Technology. 10 a.m., Bldg. 451, room

1025 (uncleared area). Contacts: Bill Bosl (CASC) 4-3557, or Leslie Bills 3-8927.

Tuesday 17
INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH
“FPGA-Based Optimizations of MPI Implementations,” by Fred Wong, University of California, Berkeley. 10 a.m., Bldg. 451, room 1025 (uncleared area). Contacts: Bronis de Supinski (CASC) 2-1062, or Leslie Bills 3-8927

Wednesday 18
H DIVISION
“Development of the Slow Positron Beam for Polymer Thin Films Characterization and Study On Ps Formation in Polymers at Low Temperatures,” by Tashiro Mutsumi, Osaka University, Japan. 10 a.m., Bldg. 219, room 163 (uncleared area). Contacts: Palakkal Asoka-Kumar, 2-9671, or Karen Lema-Crowe, 2-6233.

INTEGRATED COMPUTING & COMMUNICATIONS
Mac Technical Seminar Series. “An introduction to Unix for Mac OS X Users and System Administrators,” by Thomas Vincent. 10:30 am, Bldg. 543 auditorium (uncleared area). Contact Duane Straub, 2-9774.

Friday 20
H DIVISION
“Positron Annihilation Induced Auger Electron Spectroscopy,” by Alexander Weiss, University of Texas, Arlington. 10:30 a.m., Bldg. 219, room 163 (uncleared area). Contacts: Palakkal Asoka-Kumar, 2-9671, or Karen Lema-Crowe, 2-6233.

Monday 23
ELECTRONICS ENGINEERING
“A Guide to Assessing the Value of Yes/No Forecasts,” by William Briggs (interview candidate). 9:30 a.m., Bldg. 141 room 1104 (uncleared area). Contact: Steve Azevedo, 2-8538.

Tuesday 24
RADIATION DETECTION CENTER
“Solving the Solar Neutrino Problem at the Sudbury Neutrino Observatory,” by Eric Norman, Lawrence Berkeley National Laboratory. 11 a.m., Building 151, room 1209 (uncleared area). Contact: Christie Shannon, 3-6683.

Monday 30
H DIVISION
“Geochemistry and Impact History at the Apollo Landing Sites,” by Nicolle Zellner, Rensselaer Polytechnic Institute. 10:30 a.m., Bldg. 219, room 163 (uncleared area). Contacts: Jennifer Blank, 3-8566, or Darlene Klein, 4-4844.

The deadline for the next Technical Meeting Calendar is noon, Wednesday.

Send your input to tmc-submit@llnl.gov. For information on electronic mail or the newsgroup llnl.meeting, contact the registrar at registrar@llnl.gov.

TRIBUTE TO 9/11



Laboratory pays tribute to September 11



PHOTOS BY DON JOHNSTON/NEWSLINE

The Laboratory held a special tribute to mark the one-year anniversary of September 11. The morning began with the retiring of the flag that was hung at the Superblock one year ago (above). A Protective Force Honor Guard officially retired the flag, which was presented to Director Michael Anastasio by Chris Holm (lower right) during the tribute. The September 11 ceremony, to honor Lab employees who were called to action following the attacks, also featured a special 'Table of Remembrance' to honor police officers and firefighters killed at the World Trade Center. The ceremony was performed by Sgt. John Smalls and officers Glenn Carroll, Edward Fischer, Mike Gallegos, Raymond Harvey, Jan Kubis, Terry Robinson and Jody Wooten. A specially assembled choir performed 'America the Beautiful' and 'God Bless America' (top right) while Lab employee Michael Carter (center, left) gave his impression on his work at Ground Zero. Afterward Carter's daughter, Sarah, 13 (center), read a poem titled 'I Am.' Throughout the ceremony a quilted flag served as the backdrop, made from the felt handprints of Livermore schoolchildren. The flag, which was presented to the Pentagon by Livermore schoolteacher Cathy Dohse (center, right), is currently on loan to the Lab.



CELEBRATION

Continued from page 1

Community leaders from around the Bay Area will tour the Lab's facilities and programs and attend panel discussion on Wednesday, Sept. 18

For employees, former astronaut John Glenn will give a talk beginning at 3:30 p.m. Wednesday, Sept. 18, in the Bldg. 123 auditorium. Glenn is one of the seven original Mercury astronauts and the first American to orbit the Earth, back in 1962. After a long and distinguished career as a U.S. senator, Glenn returned to space onboard the shuttle Discovery in 1998.

On Thursday, Sept. 19, past directors of

the Laboratory will offer their insights and memories during a special panel discussion, beginning at 1:30 p.m. in the Bldg. 123 auditorium. Seating is limited, check with your directorate office.

Following the panel discussion, various Laboratory colleagues and international dignitaries from around the world as well as state and federal officials will reflect on their interactions with the Lab. This event takes place immediately following the Director's Panel, in the Bldg. 123 auditorium.

Keynote speakers from the White House, UC, DOE and DOD will speak at 10 a.m. Friday, Sept. 20, in the Bldg. 123 auditorium. Gen. John Gordon from the White House; Richard Atkinson, president of UC; and Ambassador Linton Brooks of the DOE/NNSA, and various DOD officials are

among the keynote speakers.

Event week concludes Friday during the lunch hour with a special "Employee Celebration." All Laboratory employees will be served cake and ice cream at all three cafeterias and Site 300. In the West Cafe, a DJ will spin music from the 1950s and '60s, while employees will dress in period costumes and compete for prizes.

Family Open House takes place Saturday and Sunday, Sept. 21-22. More than 10,000 visitors are expected each day when the Laboratory opens its doors to employees and their family and friends. Family Open House hours are 9:30 a.m. to 4:30 p.m. each day, while Site 300 will be open 10 a.m.-2 p.m. Saturday only.

Newsline will produce a special edition on Friday, Sept 20, detailing the myriad programs and tours available throughout the weekend.



SCIENCE DAY

SCIENCE DAY

Continued from page 1

Tarter, who helped organize the event. Rather than concentrate on the results of scientific efforts, Tarter felt it was equally important to capture the flavor of the early days as well as discuss future roles.

All Laboratory employees and retirees are invited to attend the daylong event. More than 400 invitations have gone out to scientists and administrators from other national laboratories, universities, the Department of Energy, Lab advisory panels and other government agencies.

In addition to the series of presentations in the Bldg. 123 auditorium that runs from 8 a.m. to 5 p.m., a poster expo, with principal investigators on hand and a free lunch, will run from 11 a.m. to 2 p.m. in the pavilion set up adjacent to Bldg. 123.

This year's Science Day presentations will highlight the past, present and future of four different fields of study in which the Lab is considered pre-eminent: biological research, climate modeling, astrophysics and fusion. The leader of each session will provide a historical perspective of how the Lab evolved to become a world leader in that area.

"Science is messy and it's opportunistic," Tarter said. "We wanted to provide insight into what happens, not just the results."

Director Michael Anastasio will introduce the day's agenda, along with James Decker of the DOE Office of Science and John McTague from the University of California. Anastasio will also announce the FY02 winners of the Laboratory's Science and Technology Awards and present the new Teller Fellows.

The talks, each by a scientist who played a key role at the Laboratory, will provide an overview of the history of why and how each area of science developed here. Tarter said the day is aimed at scientists and anyone who has an interest in the history of science at the Laboratory. He said the day should also provide some "cross fertilization."

"Often scientists are so wrapped in their own field of study, they have little knowledge of the rest of the Lab," Tarter said. "This is a good opportunity for researchers to get a look at some of the other things going on outside their own areas."

During the biological research session, BBRP's acting Associate Director Bert Weinstein will serve as moderator and will talk about how Watson and Crick's discovery of the double-helix model of DNA in 1953 changed the role of biology and led to the founding of the bioscience research program at the Lab.

"Science Day is an opportunity for us to look back on some of our accomplishments and use them as a springboard for thinking about where the future may take us," Weinstein said.

- The Biological Research Session will include:
- The Early History of Biological Research at the Lab — Mort Mendelsohn
 - Cytometry to Cancer Genomics: A Meandering Walk from Physics to Cancer Genetics — Joe Gray (University of California, San Francisco)
 - The Book of Life — from Anthrax to Zebra: Biology Beyond the DNA Sequencing Era — Lisa Stubbs
 - The Role of Detection in Biodefense — Fred Milanovich

The Climate Modeling Session will focus on how the origins and impacts of global climate variations have been a key element of the Lab's atmospheric sciences program for five decades, according to Bill Dannevik, Energy and Environment's Atmospheric Science Division leader and moderator for the Climate Modeling Session.

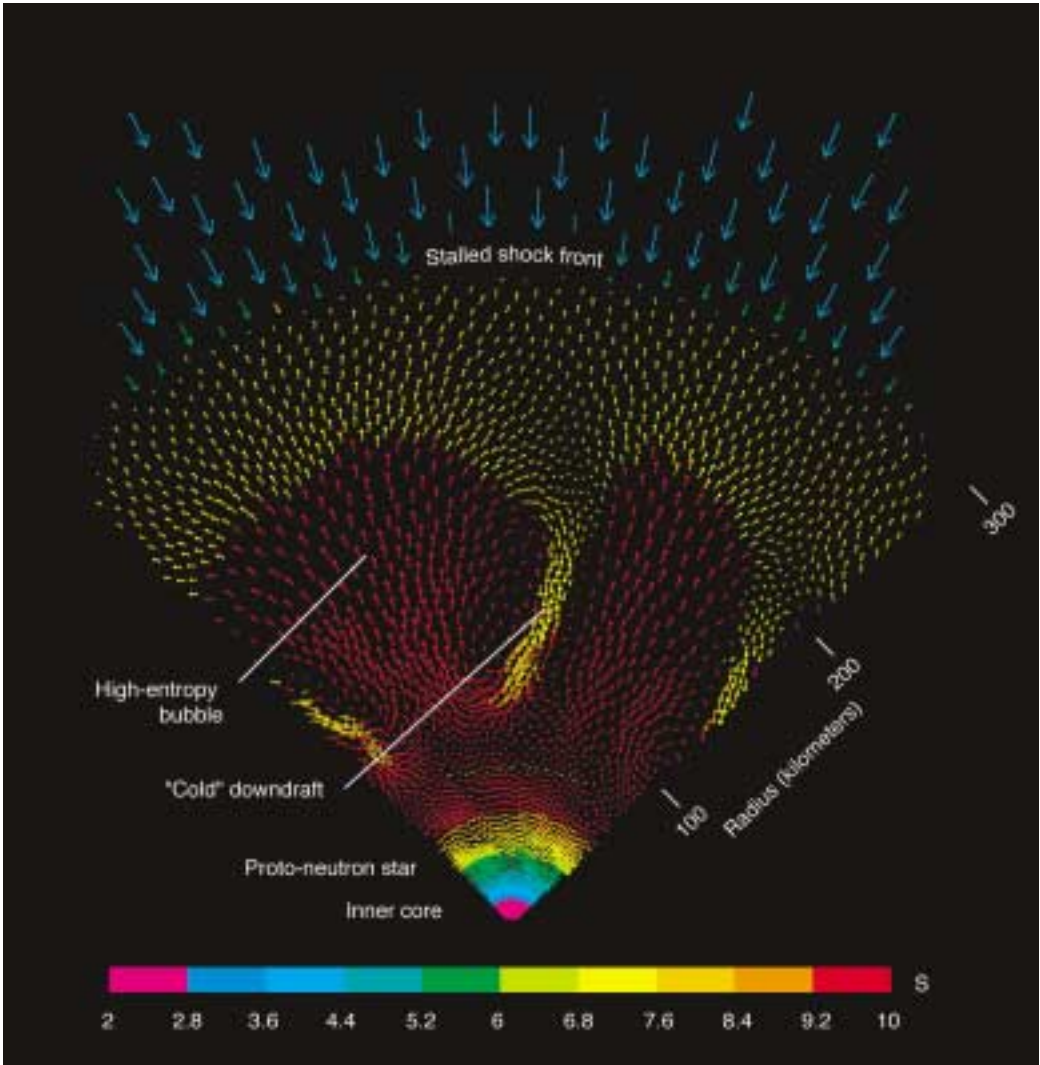
"Climate change is a multidisciplinary endeavor and many people don't realize that," Dannevik said. "We'll take a look at the role that various scientists from chemists to aerosol physicists to oceanographers to mathematicians have played in the move of climate change from nuclear winter to global warming and beyond."

- The Climate Modeling Session will include:
- Simulating Civilization's Impact on Global Warming — Historical Perspective — Chuck Leith
 - The Origins of Climate and Chemistry Modeling at Livermore — Making a Difference Globally — Mike McCracken
 - Understanding Past and Future Climate Change: LLNL's Recent Contributions — Phil Duffy

Tarter, a theoretical physicist who joined the Lab in the late 60s, said he immediately recalled the various "rivalries, topics and sociology" in astrophysics upon putting together the Astrophysics Session that he will chair. "It could be insightful or could be crazy," he said of the session. But, this will be a great overview of astrophysics."

Tarter was particularly pleased to bring back Stirling Colgate, one of the pioneers in the Lab's astrophysics work.

- The Astrophysics Session will include:
- Explosions at Livermore, or Explosions I Have Known and Don't Understand, including Supernovae — Stirling Colgate
 - Highlights of the Seventies and Eighties — Bruce Tarter
 - Adaptive Optics — A Sharper View of the Universe — Claire Max
 - The True Heart of a Star — Dave Dearborn
- The Fusion Session, chaired by NIF



The first calculations (in two dimensions), by Mar Herant, of the first neutrino-driven supernova explosions that really worked, will be among the topics for discussion during the astrophysics portion of Science Day. The image above is part of Stirling Colgate's presentation, entitled 'Explosions at Livermore, or Explosions I have Known and Don't Understand, Including Supernovae.'

Associate Director George Miller, will take the audience on the nearly five-decade journey, beginning with the discovery of the laser in 1960, to harness the immense power available in lasers to achieve fusion ignition. Presentations will show how the Laboratory's world leadership research on laser fusion has led the Lab to the construction, commissioning and imminent operation of the world's largest laser — the National Ignition Facility.

"This session will provide a look at the past, present and future of laser research; inertial fusion and high energy density science for stockpile stewardship; and the prospects for inertial fusion energy for our nation's future energy security," Miller said.

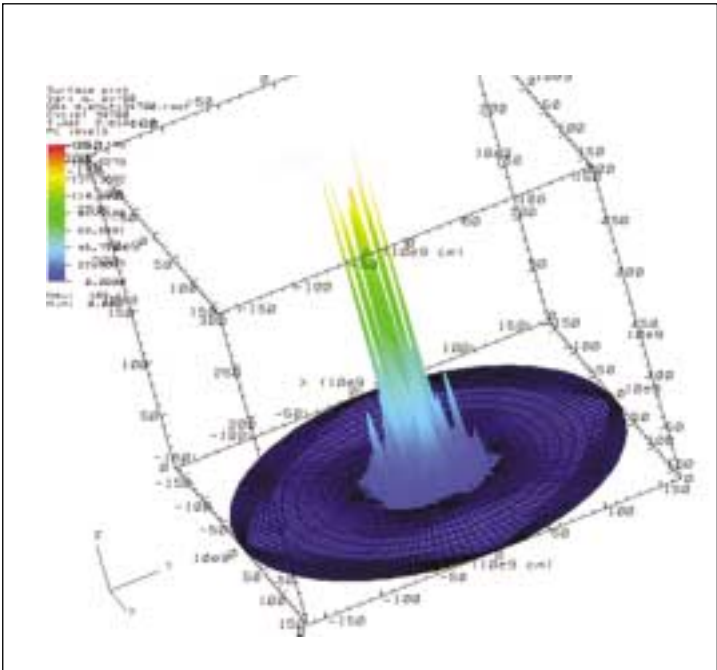
The Fusion Session will include:

- Fusion Research — Early Days — John Nuckolls
- High Energy Density Physics with Applications to Astrophysics — Bruce Remington
- Development of the Scientific Foundation of Inertial Confinement Fusion — John Lindl
- Inertial Fusion and High-Energy Density Science on the National Ignition Facility — George Miller

The Science Day poster expo will include more than 60

exhibits, representing current research activities across the Laboratory, with scientists and engineers standing by to explain their projects to visitors. Items on view will include a rock from the planet Mars, videos, simulations and instruments, including the latest developments in countering biological and chemical threats. Posters will highlight topics ranging from the world's largest linux cluster to ribbon fiber lasers — the high power lasers of the future — and solid-oxide fuel cells.

For more information on Science Day, go to <http://ScienceDay.llnl.gov> or contact Mary Callesen (3-2810) in the Laboratory Science and Technology Office.



A slice through the heart of a four-solar-mass star shows the extended region where nuclear burning drives convection. Dave Dearborn will discuss 'The True Heart of a Star.'

CELEBRATING 50 YEARS



What to know before you go to Family Open House



The arrows indicate the entryways for employees and their guests during Family Open House. Visitors may park in the Sandia lot on East Avenue. Special parking has been set aside in the A-1 and C-1 lots at the Lab site for disabled visitors.

Remember to bring your LLNL Q- or L-badge with you. Everyone who comes to the Lab or Site 300 for Family Open House must either have a Q- or L-badge valid at LLNL or be accompanied by someone who does.

Q- and L-badged employees and contractors may visit the Laboratory an unspecified number of times and may escort up to a total of 10 guests including family members, friends, P-badged employees and their families and friends, contractor employees and foreign nationals each time they visit during Family Open House weekend.

For each visit, a filled-out white form is required to bring U.S. citizen guests on site. These forms will be turned in as you enter the Lab on Saturday or Sunday, Sept. 21-22. The white form is available on the Family Open House Web page at http://www-r.llnl.gov/50th_anniversary/open-house.htm, or contact your directorate security representative. For foreign nationals, a blue card must have been previously submitted.

Where to park

Parking will be available in the southwest corner of the Lab, near Bldgs. 111 and 132 (A and Z lots), and in the Sandia lots on the south side of East Avenue.

Badges will be required to enter the parking lots. If any group is traveling to the Lab in more than one vehicle, the badged employee or contractor must have any additional vehicles follow his or her own. The employee will have to present his or her badge and vouch for any accompanying vehicles.

All large vehicles (SUVs, campers and other recreational vehicles) which security personnel cannot see into when entering the parking lot will be subject to a vehicle search.

Which entrances to use

Only two entrances will be open for Family Open House visitors (see accompanying map). Guests may enter at:

The West Gate between Bldgs. 123 and 111, accessible from the east. (This is not to be confused with the entrance on West Gate Drive, near the West Badge Office. That gate will be closed.)

The pedestrian gate west of the South Cafete-

ria (Bldg. 312). People who wish to use this entrance should park in the Sandia parking lot, and use crosswalks on East Avenue. The South Gate entrance will be closed to Family Open House traffic, and no vehicle traffic will be permitted on South Mall Drive.

If you are working

People who are working on Saturday and Sunday in support of the Family Open House activities may use the South Gate to enter or leave the Lab before 8:45 a.m. After 8:45 a.m., use the East Gate to enter or leave the Laboratory. Everyone else must use the pedestrian entrances described above. It is extremely important to limit vehicle access due to the large number of pedestrians and buses that will be on site.

Personal bicycles

Use of personal bicycles will not be permitted on site during the Family Open House.

Prohibited items

During Family Open House, Lab security will continue to enforce rules regarding prohibited items. Therefore, cameras, binoculars and cellular phones will not be allowed on site. Due to increased security measures, large items will be inspected. To minimize delays in entering the Laboratory, please avoid bringing such items.

Computer security

All classified computers outside vaults and vault-type rooms (VTRs) must be shut down and sanitized. All classified media must be appropriately stored before 7 a.m. the day before visitors are expected. Classified computing/processing on systems not contained in vaults or VTRs may not begin again until after Family Open House ends.

Computer resources used as part of an official LLNL function/demonstration must be approved by the responsible manager, the ISSO and the OISSO. The systems must be properly monitored, maintained and controlled at all times. The information provided as part of the function/demonstration must have been approved for public release by LLNL's Review and Release procedure.

Guests may only use computers that are part of an official LLNL function/demonstration.

For additional computer security information for Family Open House, see http://www-r.llnl.gov/50th_anniversary/guide/computer_sec.htm

Visitors with disabilities

Please contact Catherine McClain, Disabilities Services Program manager, at cmccclain@llnl.gov or 3-6555, for any accommodation needs during Family Open House.

• Parking — There will be parking spaces reserved for those with disabled placards in the first row of parking lot A-1 just west of Bldg. 111 and part of the C-1 parking lot just east of the South Cafeteria. To get to the A-1 lot enter at the Southwest Gate from East Avenue. To get to the C-1 lot, enter at the South Gate from East Avenue and turn left into the South Mall area. If you are bringing a guest who cannot walk long distances or uses a wheelchair, these parking spaces are reserved for you. If you do not have a California disabled parking placard or license plate, you can obtain a LLNL Family Days disabled parking placard from Catherine McClain.

• Transportation — The taxi service (2-TAXI) is available to provide door-to-door service for those with physical limitations. Simply call 2-TAXI from any Laboratory phone to request service. Please inform the dispatcher if you will need a wheelchair accessible taxi or just a regular vehicle. Try to meet the taxi from a curbed sidewalk, which makes the step up into the taxi shorter and helps the lift work better.

• Wheelchair loan — Please contact Catherine McClain (3-6555) to reserve a wheelchair in advance. There will be wheelchairs available at both entrances to the Laboratory, however to guarantee one will be available during your visit, please make an advanced reservation.

• Sign Language Interpreter — If you are bringing a visitor who needs a sign language interpreter, please contact Carol Sandoli at 3-4385, or sandoli1@llnl.gov as soon as possible. Advanced notice is needed to schedule interpreting services.

Vintage vehicles roll into Lab

PHOTOS BY DON JOHNSTON/NEWSLINE



LLESA's annual Vintage Vehicle show returned to the Lab Thursday. Employees showed off classic cars, street machines, hot rods, motorcycles and much more. Some of the cars featured included a classic Corvette, a Jaguar XKE, a Messerschmitt, a 'Good 1941' Chevrolet and a 1956 Chevy (clockwise from top right).



ALUMNI

Continued from page 1

to see them and to meet all the Nobel Prize winners. It was a lot of work, but it was fun," said Larsen, who had to get up at 4 a.m. and take three buses to get from her Livermore home to the Berkeley Lab.

Larsen is one of the Lab's original employees who will be at the Lab on Monday to help celebrate "1952 Day" at noon in the Bldg. 123 auditorium. Panelists include Chuck Blue, Jim Hadley, Chuck Hurley, Chuck Leith, Duane Sewell and Louis Wouters. AD Den Fisher will moderate the panel. Bruce Tarter, associate director-at-large, will introduce the guest speakers.

Panelists will reflect on the Laboratory in its fledgling years as well as offer insights and anecdotes.

Blue, who was part of the first team sent to Livermore from Berkeley, recalled what it was like starting up the Laboratory on the old Naval air field.

"We got to Livermore, and we opened the doors Sept. 3, 1952. At that time there were about 70 people. The prediction was that there would never be more than 250 people out here. This was a stated prediction. But it just kept growing, and it grew very rapidly," Blue recalled.

"There were some interesting things. The original building that was used for office space was the Navy dispensary, the hospital. They had this basement room which was an autopsy room. We used that initially for classified record storage, and it was quite a problem to find a safe door that would fit and muscle it down the stairs and install it down there."

Chuck Leith, whose association with the Berkeley Lab dates back to 1943, was involved in some of the early discussions of where the second laboratory should be located.

"I do remember the early discussions, which must have been before June. We were hemming and hawing about where this new laboratory might be. There were a lot of people who preferred that it not be at Livermore," Leith said. "In any case, the decision was made for it to be in Livermore, and things got started during that summer. Almost immediately, we knew that computing had to be a way of life, and that we would have to pick up any computing power that we could. That's been the hallmark of the early and later years of Livermore."

The panel discussion is open to all employees, who will have an opportunity at the end to ask questions of the panelists.

"The panelists have admirable and astonishing stories to tell about the early working conditions they encountered, as well as the technical surprises they pulled off," said Carol Gerich, who organized 1952 Day for the Director's Office. "Chuck Hurley recounts how his office was located in a former shower, and how when it was very hot, everyone took showers mid-day to cool off. Louie Wouters remembers working with Herb York during World War II at Oak Ridge, building Calutrons, and later spending an afternoon showing Ernest Lawrence around the Nevada Test Site."

All employees are invited to attend the panel, which is sponsored by the LLNL Retirees Association. Also during the day, the West Cafe will offer a 1950s-style lunch menu, and employees are invited to eat their lunch in the auditorium that day.

The "1952 Day" panel is the first celebration during Event Week.

Also on Monday, Ray Geselbracht of the Truman Library will present "Harry S. Truman and the Paradox of Atomic Energy" at 3:30 p.m. in the Bldg. 123 auditorium. All employees are invited to the talk and

reception immediately following.

Truman was president at the time LLNL was founded, and his decisions were vital to the new laboratory. Tarter will provide introductory remarks, setting the context for the lecture, which will include a video and slide show.

Both talks will be videotaped and reshowed later on the Laboratory television network.



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